

REMARKS

Claims 2-3 and 9-10 have been canceled. Claims 1, 4-8, and 11-14 remain pending in the application. Applicants amend claims 1, 4, 7-8, 11, and 14 for corrections and further clarification. No new matter has been added.

The Examiner objected to claims 1, 7-8, and 14 for apparent informalities. Applicants amend the objected-to claims in accordance with the Examiner's suggestions, and, accordingly, respectfully request that the Examiner withdraw the objections.

Claims 1, 4-8, and 11-14 stand rejected under 35 U.S.C. § 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter of the invention.

Applicants amend claims 1 and 8 to remove the "disconnecting the antenna" feature. Regarding antecedent basis for the claimed "selected antenna," Applicants refer to the claimed "selecting an antenna" feature. And Applicants amend claims 4 and 11 to recite "the signal" for consistency.

In view of the above, Applicants respectfully request that the Examiner withdraw the § 112, ¶ 2 rejection.

Claims 1, 4-8, and 11-14 stand rejected under 35 U.S.C. § 103(a) as being unpatentable over U.S. Patent No. 6,754,473 to Choi et al. in view of U.S. Patent No. 6,131,016 to Greenstein et al. Applicants respectfully traverse the rejection.

The Examiner cited Choi et al. as allegedly disclosing the principal features of the claimed invention. In particular, the Examiner cited col. 5, lines 50-63 of Choi et al. as allegedly disclosing the claimed control weight features. Such portions only include, however, an antenna #1 being designated as a reference antenna with a "fixed" weight, and another antenna having "varied" weight determined by a channel environment information set based on a calculated vector phase difference between the antennas. Thus, such portions

of Choi et al. do not include any disclosure or suggestion of distinguishing a selected antenna and an unselected antenna, calculating only a control weight applied to the selected antenna, and fixing the control weight of the unselected antenna to a current value. Indeed, the cited portions of Choi et al. explicitly describe minimizing a phase difference between antennas #1 and #2 by setting control weights based on vector feedback calculations for both antennas #1 and #2.

The Examiner cited Greenstein et al. as a combining reference to specifically address the “disconnecting the antenna” feature. As such, a combination with this reference would still have failed to cure the above-described deficiencies of Choi et al.

In other words, even assuming, arguendo, that it would have been obvious to one skilled in the art at the time the claimed invention was made to combine Choi et al. and Greenstein et al., such a combination would still have failed to disclose or suggest,

“[a] transmitting diversity system with a base station transmitting signals from a plurality of antennas and performing diversity transmission according to feedback data transmitted from a mobile node receiving the signals, comprising:
a signal condition detection unit detecting the condition of a signal transmitted from each of the plurality of antennas;
an antenna selection unit selecting an antenna for which a control weight is calculated, from the plurality of antennas;
and
a control weight unit calculating only the control weight applied to the selected antenna and applying the control weight to signals transmitted from the selected antenna, wherein
said control weight unit fixes the control weight of an unselected antenna to a current value,” as recited in claim 1.
(Emphasis added)

Again, the claimed invention advantageously provides for feeding back only the transmission weight for a selected part of antennas, and thus, reducing the amount of feedback information for comprehensive control. The cited portions of Choi et al. only include description of determining respective weights of antennas based on differences of

vector feedback for all antennas, and, thus, do not include any disclosure of such feedback reduction features.

Accordingly, Applicants respectfully submit that claim 1, together with claims 4-7 dependent therefrom, is patentable over Choi et al. and Greenstein et al., separately and in combination, for at least the above-stated reasons. Claim 8 incorporates features that correspond to those of claim 1 cited above, and is, therefore, together with claims 11-14 dependent therefrom, patentable over the cited references for at least the same reasons.

In view of the remarks set forth above, this application is in condition for allowance which action is respectfully requested. However, if for any reason the Examiner should consider this application not to be in condition for allowance, the Examiner is respectfully requested to telephone the undersigned attorney at the number listed below prior to issuing a further Action.

Any fee due with this paper may be charged to Deposit Account No. 50-1290.

Respectfully submitted,

/Dexter T. Chang/

Dexter T. Chang
Reg. No. 44,071

CUSTOMER NUMBER 026304
Telephone: (212) 940-6384
Fax: (212) 940-8986 or 8987
Docket No.: 100794-00490 (FUJO 20.695)
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